

Notice of Allowability	Application No.		Applicant(s)	
	10/605,683		KARTSCHOKE ET AL.	
	Examiner		Art Unit	
	Suchin Parihar		2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant-initiated phone conversation on 10/30/2006.
2. ☒ The allowed claim(s) is/are 2, 4 and 6-8.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>same as date of</u> 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment <u>this action</u> 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|--|--|

Paul Dinh

**PAUL DINH
PRIMARY EXAMINER**

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on 10/30/2006 with Morgan S. Heller II (Reg. #44,756), Applicant requested an extension of time for 1 MONTH(S) and authorized the Director to charge Deposit Account No. 09-0456 the required fee of \$120.00 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Morgan S. Heller II (Reg. #44,756) on 10/30/2006.

The application has been amended as follows:

In the claims

3. (Please enter the After-Final Amendment dated 7/14/2006)

In claim 4 line 11 and claim 6 line 11, after "mode", insert - -margin- -.

In claim 4 line 13 and claim 6 line 13, replace "that" with - -the corresponding - -.

Cancel claims 5, 9, 12, 19 and 20 in order to place this application into a condition for allowance.

(This Examiner's amendment has been made in order to place the application in a condition for allowance)

Reasons For Allowance

4. The following is an examiner's statement of reasons for allowance:

Claims 2, 4 and 6-8 are allowed because the prior art made of record does not teach or suggest:

A method of reducing the magnitude of an overall instantaneous current draw during a timing cycle in a synchronous integrated circuit having a plurality of timing paths each having a late mode margin associated therewith, comprising the steps of:

(a) stepping through the plurality of timing paths so as to determine for each one of the plurality of timing paths whether or not the corresponding late mode margin is greater than zero;

(b) in response to the corresponding late mode margin being determined to be greater than zero in step (a), adding a delay to the corresponding one of said plurality of timing paths;

(c) in response to the corresponding late mode being determined to be greater than zero in step (a), inserting a delay element into the corresponding one of the plurality of timing paths, said delay element configured to induce said delay into the corresponding one of the plurality of timing paths; and

wherein each one of the plurality of timing paths has a corresponding late mode margin and step (b) includes setting said delay to said corresponding late mode margin minus a fraction of a timing cycle.

and those limitations as similarly claimed in claim 6.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suchin Parihar whose telephone number is 571-272-6210. The examiner can normally be reached on Mon-Fri, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/605,683
Art Unit: 2825

Page 5



Suchin Parihar
Examiner
AU 2825

PAUL DINH
PRIMARY EXAMINER

